

## Title (en)

Diesel fuel compositions containing metallic species and detergent additives

## Title (de)

Dieselmotorkraftstoffzusammensetzungen enthaltend metallische Spezies und Detergensadditive

## Title (fr)

Compositions de carburant diesel contenant des espèces métalliques et des additifs détergents

## Publication

**EP 1884556 A3 20110914 (EN)**

## Application

**EP 07111665 A 20070703**

## Priority

- EP 06118493 A 20060804
- EP 07111665 A 20070703

## Abstract (en)

[origin: EP1884556A2] A diesel fuel composition comprising a major amount of a diesel fuel, a minor amount of at least one metallic species and a minor amount of a detergent additive; wherein the detergent additive comprises at least one compound of formula (I) and/or formula (II): wherein each Ar independently represents an aromatic moiety having 0 to 3 substituents selected from the group consisting of alkyl, alkoxy, alkoxyalkyl, aryloxy, aryloxyalkyl, hydroxy, hydroxyalkyl, halo and combinations thereof; each L is independently a linking moiety comprising a carbon-carbon single bond or a linking group; each Y is independently -OR<sup>1</sup> or a moiety of the formula H(O(CR<sup>1</sup> 2 ) n ) y X<sup>-</sup>, wherein X is selected from the group consisting of (CR<sup>1</sup> 2 ) z , O and S; R<sup>1</sup> and R<sup>1</sup> are each independently selected from H, C 1 to C 6 alkyl and aryl; R<sup>1</sup> is selected from C 1 to C 100 alkyl and aryl; z is 1 to 10; n is 0 to 10 when X is (CR<sup>1</sup> 2 ) z , and 2 to 10 when X is O or S; and y is 1 to 30; each a is independently 0 to 3, with the proviso that at least one Ar moiety bears at least one group Y; and m is 1 to 100; wherein: each Ar' independently represents an aromatic moiety having 0 to 3 substituents selected from the group consisting of alkyl, alkoxy, alkoxyalkyl, hydroxy, hydroxyalkyl, acyloxy, acyloxyalkyl, acyloxyalkoxy, aryloxy, aryloxyalkyl, aryloxyalkoxy, halo and combinations thereof; each L' is independently a linking moiety comprising a carbon-carbon single bond or a linking group; each Y' is independently a moiety of the formula ZO- or Z(O(CR<sup>2</sup> 2 ) n' ) y' X<sup>-</sup>, wherein X' is selected from the group consisting of (CR<sup>2</sup> 2 ) z' , O and S; R<sup>2</sup> and R<sup>2</sup> are each independently selected from H, C 1 to C 6 alkyl and aryl; z' is 1 to 10; n' is 0 to 10 when X' is (CR<sup>2</sup> 2 ) z' , and 2 to 10 when X' is O or S; y' is 1 to 30; Z is H, an acyl group, a polyacyl group, a lactone ester group, an acid ester group, an alkyl group or an aryl group; each a' is independently 0 to 3, with the proviso that at least one Ar' moiety bears at least one group Y' in which Z is not H; and m' is 1 to 100.

## IPC 8 full level

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## CPC (source: EP)

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## Citation (search report)

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